

From bluegrassdakine at hotmail.com Sat Dec 1 00:19:41 2018
From: bluegrassdakine at hotmail.com (Raymond Cote)
Date: Sat, 1 Dec 2018 05:19:41 +0000
Subject: [BoatAnchors] Repair of Phenolic Dial Markings (Hallicrafters,
National, etc)
In-Reply-To: <mailman.155.1543565034.1227.boatanchors@lists.theporch.com>
References: <mailman.152.1543559691.1227.boatanchors@lists.theporch.com>,
<mailman.155.1543565034.1227.boatanchors@lists.theporch.com>
Message-ID:
<BYAPR04MB49036DB1FE956A3F406FE0CDA9AC0@BYAPR04MB4903.namprd04.prod.outlook.com>

Great Job Joe! Many if us have no clue what you did but your explanation helped a little. Ive done a couple Halli radios but they still have the barely legible dials. Lol

> On Nov 30, 2018, at 02:04, Les Zwiebel via BoatAnchors <boatanchors at lists.theporch.com> wrote:

>
> Nice post, Joe. Thanks.(((73)))Les WB60RZ

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> ----- Original message -----From: William Watson via BoatAnchors
<boatanchors at lists.theporch.com> Date: 11/29/18 10:34 PM (GMT-08:00) To:
boatanchors at lists.theporch.com Cc: William Watson <wwatson5 at sbcglobal.net>
Subject: [BoatAnchors] Repair of Phenolic Dial Markings (Hallicrafters,
> National, etc)

>
> Occasionally, something works well enough you feel an obligation to tell
> others about it.

>
> I have restored several Hallicrafters S20R, SX-24, SX-25, SX-28 etc, that
> had faded or otherwise illegible dial scales. For some of these, there are
> nice looking repro dials available, but they are not free.

>
> I am currently working on yet another S20R with a faded bandsread dial.
> I tried to carefully clean it, but much of what was left of the printed
> markings cleaned off with the dirt.

>
> On Google Image, I found a good photo of the dial----I could have
> photographed a good one, but this one looked very nice. I played around with

> some photo editing software and was able to edit the photo to a good black and
> clear version (without the aged yellow phenolic color). I adjusted the size
> of the image to match the original size.

>

> I went ahead and cleaned off all of the original markings from the original
> dial and printed the actual size black dial image on some Avery Matte Clear
> Repositionable Sticker Project Paper. I then trimmed this to make a decal
> nice. There is still most of the age color left in the phenolic disk, which
> looks right. The translucent properties are virtually unaffected by
> the decal, so the rear lighting should be fine. I also have some glossier
> Silhouette Printable Clear Sticker Paper, which I will try for comparison.

>

> This proved to be a very easy and satisfactory solution for a common problem
> in working with these old dials. I plan to do a lot more of this.

>

> Joe Watson

> W5WBR

>

>

> Sent from Mail for Windows 10

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> -----
> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

>

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> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From jerry7proc at yahoo.com Wed Dec 12 15:04:10 2018

From: jerry7proc at yahoo.com (Jerry Proc)

Date: Wed, 12 Dec 2018 20:04:10 +0000 (UTC)

Subject: [BoatAnchors] Tube Envelope Question

References: <270610589.3571306.1544645050329.ref@mail.yahoo.com>

Message-ID: <270610589.3571306.1544645050329@mail.yahoo.com>

Hello Everyone,

I am trying to catalog a Canadian Marconi Model 499 radio/phonograph. From the data on the back of the set, the 35W4 and 35C5 tubes are shown as being in the same envelope but I know that's impossible. What would be the reason for showing it in this manner when both of those tubes are separate items?

-- Regards, Jerry Proc E-mail: jerry7proc at yahoo.com

From gumbear at pacbell.net Wed Dec 12 16:25:00 2018

From: gumbear at pacbell.net (Arden Allen)

Date: Wed, 12 Dec 2018 13:25:00 -0800
Subject: [BoatAnchors] Tube Envelope Question
In-Reply-To: <270610589.3571306.1544645050329@mail.yahoo.com>
References: <270610589.3571306.1544645050329.ref@mail.yahoo.com>
<270610589.3571306.1544645050329@mail.yahoo.com>
Message-ID: <116CD4669D574F63901764C35476F28E@Lenovo>

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> the data on the back of the set, the 35W4 and 35C5 tubes are shown as
> being in the same envelope but I know that's impossible. What would be the
> reason for showing it in this manner when both of those tubes are separate
> items?

If you've laid eyes on as many mfr's documents over the year as I have you know they are rife with errors. The 35C5 and 35W4 had the same size glass envelopes in the AA5's I've worked on so it's no wonder someone got confused. Or maybe that's just Canada for you (Hi!).

Arden Allen
KB6NAX

He who is cruel to animals becomes
hard also in his dealings with men.
We can judge the heart of a man by
his treatment of animals.
?Immanuel Kant

From jerry7proc at yahoo.com Wed Dec 12 17:06:00 2018
From: jerry7proc at yahoo.com (Jerry Proc)
Date: Wed, 12 Dec 2018 22:06:00 +0000 (UTC)
Subject: [BoatAnchors] Tube Envelope Question
In-Reply-To: <116CD4669D574F63901764C35476F28E@Lenovo>
References: <270610589.3571306.1544645050329.ref@mail.yahoo.com>
<270610589.3571306.1544645050329@mail.yahoo.com>
<116CD4669D574F63901764C35476F28E@Lenovo>
Message-ID: <1398800097.3618104.1544652360997@mail.yahoo.com>

Hi Arden,
I have figured it out. The tube types within the common envelope are the 35C3 and 35W4. I suspect that this is the manufacturer's way of saying that one or the other of these two half wave rectifiers can be found in this particular position. This model 499 radio is an AA5 design, You can't have a 50volt filament in series with two 35 volt filaments. and the other 12 volt filaments.
I had attached the image to my first e-mail but it didn't? get propaagated?
-- Regards, Jerry Proc E-mail: jerry7proc at yahoo.com

On Wednesday, December 12, 2018, 4:26:19 p.m. EST, Arden Allen <gumbear at

pacbell.net> wrote:

> I am trying to catalog a Canadian Marconi Model 499 radio/phonograph. From
> the data on the back of the set, the 35W4 and 35C5 tubes are shown as
> being in the same envelope but I know that's impossible. What would be the
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?Immanuel Kant

From gumbear at pacbell.net Wed Dec 12 23:10:31 2018
From: gumbear at pacbell.net (Arden Allen)
Date: Wed, 12 Dec 2018 20:10:31 -0800
Subject: [BoatAnchors] Tube Envelope Question
In-Reply-To: <1398800097.3618104.1544652360997@mail.yahoo.com>
References: <270610589.3571306.1544645050329.ref@mail.yahoo.com>
<270610589.3571306.1544645050329@mail.yahoo.com>
<116CD4669D574F63901764C35476F28E@Lenovo>
<1398800097.3618104.1544652360997@mail.yahoo.com>
Message-ID: <DBFB7861F68F40F19C45EC5D8841463B@Lenovo>

I'm not making sense out of what you are saying, Jerry. The 35W4 is a half wave rectifier. The 35C5 is an audio output pentode. The 35C3 is a typo. The envelopes are the same size but not "common." Send me a high resolution photo of the radio diagram.

Arden

-----Original Message-----

From: Jerry Proc via BoatAnchors
Sent: Wednesday, December 12, 2018 2:06 PM
To: boatanchors at lists.theporch.com ; Arden Allen
Cc: Jerry Proc
Subject: Re: [BoatAnchors] Tube Envelope Question

Hi Arden,

I have figured it out. The tube types within the common envelope are the 35C3 and 35W4. I suspect that this is the manufacturer's way of saying that one or the other of these two half wave rectifiers can be found in this particular position. This model 499 radio is an AA5 design, You can't have a 50volt filament in series with two 35 volt filaments. and the other 12 volt filaments.

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?Immanuel Kant

BoatAnchors mailing list
BoatAnchors at lists.theporch.com
<https://lists.theporch.com/mailman/listinfo/boatanchors>

From wa5cab at cs.com Sat Dec 15 03:07:09 2018
From: wa5cab at cs.com (Robert Downs)
Date: Sat, 15 Dec 2018 02:07:09 -0600
Subject: [BoatAnchors] Tube Envelope Question
In-Reply-To: <DBFB7861F68F40F19C45EC5D8841463B@Lenovo>
References: <270610589.3571306.1544645050329.ref@mail.yahoo.com>
<270610589.3571306.1544645050329@mail.yahoo.com>

<116CD4669D574F63901764C35476F28E@Lenovo>
<1398800097.3618104.1544652360997@mail.yahoo.com>
<DBFB7861F68F40F19C45EC5D8841463B@Lenovo>
Message-ID: <00df01d4944d\$2dcc66b0\$89653410\$@com>

Also, you certainly can series filaments of different voltages so long as they all draw the same current (in this case, 150 mA). The standard or one standard AA5 tube complement uses 50C5, 35W4 and three 12 volt tubes, which all adds up to close to 120V. If your set had a 35C5, it must have had a 6th 12V tube.

Robert Downs

-----Original Message-----

From: BoatAnchors [mailto:boatanchors-bounces at lists.theporch.com] On Behalf Of Arden Allen via BoatAnchors
Sent: Wednesday, December 12, 2018 22:11
To: Ham radios with tubes
Cc: Arden Allen
Subject: Re: [BoatAnchors] Tube Envelope Question

I'm not making sense out of what you are saying, Jerry. The 35W4 is a half wave rectifier. The 35C5 is an audio output pentode. The 35C3 is a typo. The envelopes are the same size but not "common." Send me a high resolution photo of the radio diagram.

Arden

-----Original Message-----

From: Jerry Proc via BoatAnchors
Sent: Wednesday, December 12, 2018 2:06 PM
To: boatanchors at lists.theporch.com ; Arden Allen
Cc: Jerry Proc
Subject: Re: [BoatAnchors] Tube Envelope Question

Hi Arden,

I have figured it out. The tube types within the common envelope are the 35C3 and 35W4. I suspect that this is the manufacturer's way of saying that one or the other of these two half wave rectifiers can be found in this particular position. This model 499 radio is an AA5 design, You can't have a 50volt filament in series with two 35 volt filaments. and the other 12 volt filaments.

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Arden Allen
KB6NAX

From infomet at embarqmail.com Sat Dec 15 12:15:09 2018
From: infomet at embarqmail.com (Wilson Lamb)
Date: Sat, 15 Dec 2018 12:15:09 -0500 (EST)
Subject: [BoatAnchors] Tube Envelope Question
In-Reply-To: <mailman.6.1544893201.18230.boatanchors@lists.theporch.com>
References: <mailman.6.1544893201.18230.boatanchors@lists.theporch.com>
Message-ID: <1900390647.35678426.1544894109085.JavaMail.zimbra@embarqmail.com>

I can't open the attachment...is it OK?
WL

----- Original Message -----

> From: boatanchors-request at lists.theporch.com
> To: boatanchors at lists.theporch.com
> Sent: Saturday, December 15, 2018 12:00:01 PM
> Subject: BoatAnchors Digest, Vol 377, Issue 2

> Send BoatAnchors mailing list submissions to
> boatanchors at lists.theporch.com
>
> To subscribe or unsubscribe via the World Wide Web, visit
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
> or, via email, send a message with subject or body 'help' to
> boatanchors-request at lists.theporch.com
>
> You can reach the person managing the list at
> boatanchors-owner at lists.theporch.com
>
> When replying, please edit your Subject line so it is more specific
> than "Re: Contents of BoatAnchors digest..."
>
> Today's Topics:
>

> 1. Re: Tube Envelope Question (Robert Downs)
>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

From infomet at embarqmail.com Sat Dec 15 12:24:12 2018
From: infomet at embarqmail.com (Wilson Lamb)
Date: Sat, 15 Dec 2018 12:24:12 -0500 (EST)
Subject: [BoatAnchors] Old Homebrew Amplifiers
Message-ID: <612438983.35686027.1544894652904.JavaMail.zimbra@embarqmail.com>

I like HB amps, because they are simple enough to partly understand and the parts are large enough to work with.

It's just not the same as plugging in something commercial and hoping it doesn't smoke.

I enjoy rescuing/reviving old stuff from carports, sheds, even inside storage. I got one that had been in a carport for at least a decade.

Funny thing was it was never finished! I'm absolutely sure, because the filaments were incorrectly connected to the transformer!

Other than that, it was a nice job, with nice bandswitched tank circuit.

But I despair, because I am the only local I know of with any such hardware on the air!

You can see some of mine on QRZ.com.

Is there anyone else on here building/operating old style HB amps who would enjoy trading pictures/stories/info??

Wilson

W4BOH

From 1911autoloader at gmail.com Sat Dec 15 12:34:00 2018
From: 1911autoloader at gmail.com (Mike Anonymous)
Date: Sat, 15 Dec 2018 11:34:00 -0600
Subject: [BoatAnchors] Old Homebrew Amplifiers
In-Reply-To: <612438983.35686027.1544894652904.JavaMail.zimbra@embarqmail.com>
References: <612438983.35686027.1544894652904.JavaMail.zimbra@embarqmail.com>
Message-ID: <5cf73354-a705-9ef1-0542-8f0bd853397d@gmail.com>

Wilson,

I like HB amps, too.? A while back, I saw a 4-hole sweep tube HB amp on eBay.? Who ever built it did a great job and added some bells and whistles.? I had to have it.? I received only the hardware, no schematic, no nothin'.? I'm anxious to fiddle with it, but, haven't gotten to it, yet.? I have a house full of boat anchors demanding my attention!? Good luck with yours!

73, Mike

K? 0? Collects? Radios? eXclusively

On 12/15/2018 11:24 AM, Wilson Lamb via BoatAnchors wrote:

> I like HB amps, because they are simple enough to partly understand and the parts are large enough to work with.
> It's just not tha same as plugging in something commercial and hoping it doesn't smoke.
> I enjoy rescuing/reviving old stuff from carports, sheds, even inside storage. I got one that had been in a carport for at least a decade.
> Funny thing was it was never finished! I'm absolutely sure, because the filaments were incorrectly connected to the transformer!
> Other than that, it was a nice job, with nice bandswitched tank circuit.
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> Is there anyone else on here building/operating old style HB amps who would enjoy trading pictures/stories/info??
> Wilson
> W4BOH
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

--

?Government, even in its best state, is but a necessary evil; in its worst state, an intolerable one.? - Thomas Paine

"The New America - Those who work, sow. Those who don't, reap." - Mike Sewell

MOLON LABE

This email has been checked for viruses by Avast antivirus software.
<https://www.avast.com/antivirus>

From wwatson5 at sbcglobal.net Sat Dec 15 22:09:14 2018

From: wwatson5 at sbcglobal.net (William Watson)

Date: Sat, 15 Dec 2018 21:09:14 -0600

Subject: [BoatAnchors] SX-28 S Meter

Message-ID: <mailman.621.1544929759.1234.boatanchors@lists.theporch.com>

Looking for a SX-28 S Meter.

Anyone have one they would sell?

Thanks.

Joe Watson

Sent from Mail for Windows 10

From arc5 at ix.netcom.com Sat Dec 15 22:31:32 2018
From: arc5 at ix.netcom.com (David Stinson)
Date: Sat, 15 Dec 2018 21:31:32 -0600
Subject: [BoatAnchors] "Impossible Receiver?"
Message-ID: <000001d494ef\$d7a275b0\$86e76110\$@netcom.com>

Between bigger projects, I've been fiddling with
Crystal
receivers, just for fun.
In the 1950s "GE HAM NEWS" there was a series of
articles
about simple crystal receivers. One piqued my
curiosity.

Please look at the attached drawing. It is
correct-
didn't miss any lines. The headphone part of the
circuit has no ground return, just two diodes
connected
as you see. Not only does it work, stations are
slightly
stronger than with a conventional circuit and the
tuned-circuit's selectivity is very good, because
the
connection to the diodes is about as "High
Impedance"
as one could get.

Why does this work?

I have my ideas, but hearing yours would be
valuable.

TNX OM ES 73 DE Dave AB5S

From ark at ar88.net Sat Dec 15 23:07:52 2018
From: ark at ar88.net (Al Klase)

Date: Sat, 15 Dec 2018 23:07:52 -0500
Subject: [BoatAnchors] "Impossible Receiver?"
In-Reply-To: <000001d494ef\$d7a275b0\$86e76110\$@netcom.com>
References: <000001d494ef\$d7a275b0\$86e76110\$@netcom.com>
Message-ID: <3a9601a5-4e8f-5945-ee6d-814881bf6b3c@ar88.net>

Hi Dave,

Your attachment got stripped.? Doesn't surprise me.

The whole run Ham News is here:
https://www.americanradiohistory.com/GE_Ham_News.htm.? Maybe provide a link.

Are you speaking of this:

Don't know what issue.? Probably works on stray capacitance through the headset and your body.

A couple of sets that work well on my site:
<http://www.skywaves.ar88.net/xtal/xtal.htm>

VY 73,
Al

On 12/15/2018 10:31 PM, David Stinson via BoatAnchors wrote:

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> Why does this work?
> I have my ideas, but hearing yours would be
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> TNX OM ES 73 DE Dave AB5S
>
>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

--
Al Klase ? N3FRQ
Jersey City, NJ
<http://www.skywaves.ar88.net/>

From wlfuqu00 at uky.edu Sun Dec 16 02:02:31 2018
From: wlfuqu00 at uky.edu (Fuqua, William)
Date: Sun, 16 Dec 2018 07:02:31 +0000
Subject: [BoatAnchors] "Impossible Receiver?"
In-Reply-To: <3a9601a5-4e8f-5945-ee6d-814881bf6b3c@ar88.net>
References: <000001d494ef\$d7a275b0\$86e76110\$@netcom.com>,
<3a9601a5-4e8f-5945-ee6d-814881bf6b3c@ar88.net>
Message-ID:
<DM5PR03MB29085E94DE827A66CBA6B88FCBA30@DM5PR03MB2908.namprd03.prod.outlook.com>

I still don't see the " "Impossible Receiver?" link.

73

wa4lav

From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of Al Klase <ark at ar88.net>
Sent: Saturday, December 15, 2018 11:07 PM
To: David Stinson via BoatAnchors
Subject: Re: [BoatAnchors] "Impossible Receiver?"

Hi Dave,

Your attachment got stripped. Doesn't surprise me.

The whole run Ham News is here:
<https://na01.safelinks.protection.outlook.com/?>

url=https%3A%2F%2Fwww.americanradiohistory.com%2FGE_Ham_News.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b818481cb53d42ae%7C0%7C1%7C636805300801412908&sdata=60%2Bqkegopogw1T7%2Bwq5J3ohhGwM9XUNYnGXUz1wVbcM%3D&reserved=0. Maybe provide a link.

Are you speaking of this:

Don't know what issue. Probably works on stray capacitance through the headset and your body.

A couple of sets that work well on my site:

[https://na01.safelinks.protection.outlook.com/?](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.skywaves.ar88.net%2Fxtal%2Fxtal.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b818481cb53d42ae%7C0%7C1%7C636805300801412908&sdata=IezwYs4kfeS%2BvhH08Mk75vMvnMJL1IHh2BC03i7J3n8%3D&reserved=0)

[url=http%3A%2F%2Fwww.skywaves.ar88.net%2Fxtal%2Fxtal.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b818481cb53d42ae%7C0%7C1%7C636805300801412908&sdata=IezwYs4kfeS%2BvhH08Mk75vMvnMJL1IHh2BC03i7J3n8%3D&reserved=0](http%3A%2F%2Fwww.skywaves.ar88.net%2Fxtal%2Fxtal.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b818481cb53d42ae%7C0%7C1%7C636805300801412908&sdata=IezwYs4kfeS%2BvhH08Mk75vMvnMJL1IHh2BC03i7J3n8%3D&reserved=0)

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> BoatAnchors at lists.theporch.com
> https://na01.safelinks.protection.outlook.com/?
url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=0
2%7C01%7Cwlfuqu00%40uky.edu%7C1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b
818481cb53d42ae%7C0%7C1%7C636805300801412908&sdata=fQvspHh5bzeBACh18ggHkIrAyDv
npZviEHavI7Vkvxs%3D&reserved=0

--
Al Klase ? N3FRQ
Jersey City, NJ
https://na01.safelinks.protection.outlook.com/?
url=http%3A%2F%2Fwww.skywaves.ar88.net%2F&data=02%7C01%7Cwlfuqu00%40uky.edu%7C
1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b818481cb53d42ae%7C0%7C1%7C6368
05300801412908&sdata=nBMkB0W1wpXWoCpwDR0e0tpc8EeWB0qgZpm10DVXAwM%3D&reserv
ed=0

BoatAnchors mailing list
BoatAnchors at lists.theporch.com
https://na01.safelinks.protection.outlook.com/?
url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=0
2%7C01%7Cwlfuqu00%40uky.edu%7C1a861d35beb1466b9e6108d6630c0f1e%7C2b30530b69b64457b
818481cb53d42ae%7C0%7C1%7C636805300801422912&sdata=UDpt28RD0axTUBZYsd17r7vi1yl
wUAgnlmFEH0uzpkA%3D&reserved=0

From wlfuqu00 at uky.edu Sun Dec 16 04:55:21 2018
From: wlfuqu00 at uky.edu (Fuqua, William)
Date: Sun, 16 Dec 2018 09:55:21 +0000
Subject: [BoatAnchors] "Impossible Receiver?"
In-Reply-To:
<DM5PR03MB29085E94DE827A66CBA6B88FCBA30@DM5PR03MB2908.namprd03.prod.outlook.com>
References: <000001d494ef\$d7a275b0\$86e76110\$@netcom.com>,
<3a9601a5-4e8f-5945-ee6d-814881bf6b3c@ar88.net>,
<DM5PR03MB29085E94DE827A66CBA6B88FCBA30@DM5PR03MB2908.namprd03.prod.outlook.com>
Message-ID:
<DM5PR03MB2908720DDD8589636E88A4B9CBA30@DM5PR03MB2908.namprd03.prod.outlook.com>

By the way, when using a ceramic or crystal earphone, there must be a DC return path to allow the capacitance of the earphone to discharge. The rectified modulation peaks of the RF signal will charge the earphone and you will only get audio momentarily. The very early detectors had a lot of leakage resistance that served this function, but the later ones don't. A resistor must be placed across the earphone, in the "Rocket radios" the resistor was mounted on the earphone

under the rear cover where the wires enter. The ceramic earphones have a lot of capacitance, at least 10nF. This means that for 5 kHz audio bandwidth the resistance must be no higher than 3k. The crystal, Rochelle Salt, earphones have less capacitance. I believe the rocket radios used around 50k to 100k shunt resistance, I think. It has been almost 60 years since I have seen one.

73

Bill wa4lav

From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of Fuqua, William <wlfuqu00 at uky.edu>
Sent: Sunday, December 16, 2018 2:02 AM
To: David Stinson via BoatAnchors
Subject: Re: [BoatAnchors] "Impossible Receiver?"

I still don't see the " "Impossible Receiver?" link.

73

wa4lav

From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of Al Klase <ark at ar88.net>
Sent: Saturday, December 15, 2018 11:07 PM
To: David Stinson via BoatAnchors
Subject: Re: [BoatAnchors] "Impossible Receiver?"

Hi Dave,

Your attachment got stripped. Doesn't surprise me.

The whole run Ham News is here:
https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.americanradiohistory.com%2FGE_Ham_News.htm&data=02%7C01%7Cwlfuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=4tYfTdv5ISstI2DCdCBarj%2B2d00knipHYuCTMVaD6%2BWM%3D&reserved=0. Maybe provide a link.

Are you speaking of this:

Don't know what issue. Probably works on stray capacitance through the

headset and your body.

A couple of sets that work well on my site:

[https://na01.safelinks.protection.outlook.com/?](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.skywaves.ar88.net%2Fxtal%2Fxtal.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=4hK1%2FrDDTN5hyMh6%2FgY1YCL2C43kImiKj%2FGlDEjk50E%3D&reserved=0)

[url=http%3A%2F%2Fwww.skywaves.ar88.net%2Fxtal%2Fxtal.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=4hK1%2FrDDTN5hyMh6%2FgY1YCL2C43kImiKj%2FGlDEjk50E%3D&reserved=0](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.skywaves.ar88.net%2Fxtal%2Fxtal.htm&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=4hK1%2FrDDTN5hyMh6%2FgY1YCL2C43kImiKj%2FGlDEjk50E%3D&reserved=0)

VY 73,

Al

On 12/15/2018 10:31 PM, David Stinson via BoatAnchors wrote:

> Between bigger projects, I've been fiddling with

> Crystal

> receivers, just for fun.

> In the 1950s "GE HAM NEWS" there was a series of

> articles

> about simple crystal receivers. One piqued my

> curiosity.

>

> Please look at the attached drawing. It is

> correct-

> didn't miss any lines. The headphone part of the

> circuit has no ground return, just two diodes

> connected

> as you see. Not only does it work, stations are

> slightly

> stronger than with a conventional circuit and the

> tuned-circuit's selectivity is very good, because

> the

> connection to the diodes is about as "High

> Impedance"

> as one could get.

>

> Why does this work?

> I have my ideas, but hearing yours would be

> valuable.

>

> TNX OM ES 73 DE Dave AB5S

>

>

> -----
> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> [https://na01.safelinks.protection.outlook.com/?](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUy749ffcsxJNhwfly1E)

[url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUy749ffcsxJNhwfly1E](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUy749ffcsxJNhwfly1E)

EDMDXz8m4ldSRnmuf8%3D&reserved=0

--

Al Klase ? N3FRQ

Jersey City, NJ

[https://na01.safelinks.protection.outlook.com/?](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.skywaves.ar88.net%2F&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=E0stDadXEtkVZnkWlw5kfDs7l7d61fmAlStpTufXQZM%3D&reserved=0)

[url=http%3A%2F%2Fwww.skywaves.ar88.net%2F&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=E0stDadXEtkVZnkWlw5kfDs7l7d61fmAlStpTufXQZM%3D&reserved=0](https://na01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.skywaves.ar88.net%2F&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=E0stDadXEtkVZnkWlw5kfDs7l7d61fmAlStpTufXQZM%3D&reserved=0)

BoatAnchors mailing list

BoatAnchors at lists.theporch.com

[https://na01.safelinks.protection.outlook.com/?](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUY749ffcsxJNhwfly1EEDMDXz8m4ldSRnmuf8%3D&reserved=0)

[url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUY749ffcsxJNhwfly1EEDMDXz8m4ldSRnmuf8%3D&reserved=0](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUY749ffcsxJNhwfly1EEDMDXz8m4ldSRnmuf8%3D&reserved=0)

BoatAnchors mailing list

BoatAnchors at lists.theporch.com

[https://na01.safelinks.protection.outlook.com/?](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUY749ffcsxJNhwfly1EEDMDXz8m4ldSRnmuf8%3D&reserved=0)

[url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUY749ffcsxJNhwfly1EEDMDXz8m4ldSRnmuf8%3D&reserved=0](https://na01.safelinks.protection.outlook.com/?url=https%3A%2F%2Flists.theporch.com%2Fmailman%2Flistinfo%2Fboatanchors&data=02%7C01%7Cw1fuqu00%40uky.edu%7C37acb83fdacf4619b43908d663247669%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C636805405654303421&sdata=nZF1D%2FUY749ffcsxJNhwfly1EEDMDXz8m4ldSRnmuf8%3D&reserved=0)

From arc5 at ix.netcom.com Sun Dec 16 08:01:12 2018

From: arc5 at ix.netcom.com (David Stinson)

Date: Sun, 16 Dec 2018 07:01:12 -0600

Subject: [BoatAnchors] "Impossible Receiver?"

Message-ID: <000001d4953f\$6c35cb10\$44a16130\$@netcom.com>

Between larger projects, been fiddling-around with

Crystal receivers, just for fun.

Saw an odd circuit it 1950s

"GE Ham News" and tried it.

The diagram is at:

<https://photos.app.goo.gl/B6jAi5ToQ61ZsjKj9>

The drawing is correct- there is no ground return for the headphones. Not only does it work, but the output on the phones is slightly better than the conventional circuit and the selectivity of the tuned-circuit is far better, since the connection to the diodes and headphones probably couldn't get more "Hi-Z."

So how does this thing work? I have an idea:
On the positive RF cycle, once the RF voltage goes above 0.3V, the top diode is forward-biased. This can work because the bottom diode is reverse-biased and acts as a small capacitor, so charging the cap provides a current path. The headphone coils and diode "capacitor" act as a tuned circuit.

When the top diode goes forward-bias during the peak of the positive RF waveform, its conduction gives a pulse of energy and the whole thing "rings,"

just like a tank in a Class C amp. When the RF voltage reverses for the negative half-cycle, the diodes switch operating modes, the bottom diode providing the current pulse and the top being the capacitor. This can only work with Hi-Z headphones, since Lo-Z would eat the voltage pulse immediately.

That's one theory. I would value your thoughts on this oddity.

TNX OM DE Dave AB5S

From brian at flex-tel.com.au Sun Dec 16 17:35:02 2018
From: brian at flex-tel.com.au (Brian Goldsmith)
Date: Sun, 16 Dec 2018 22:35:02 +0000
Subject: [BoatAnchors] Radio receiver CFT-46194.
Message-ID:
<MEAPR01MB232800B63FAD984233F1DB97BEA30@MEAPR01MB2328.ausprd01.prod.outlook.com>

Greetings to all from downunder.

I have a receiver which I would like to restore, model CFT-46194, it was part of DAQ direction finding equipment. Alas, no trace of a manual have I been able to find,
Could some kind soul point me in the right direction.
Many thanks, Brian g

From k1lky68 at gmail.com Sun Dec 16 19:55:27 2018
From: k1lky68 at gmail.com (Roy Morgan)
Date: Sun, 16 Dec 2018 19:55:27 -0500
Subject: [BoatAnchors] Radio receiver CFT-46194.

In-Reply-To:

<MEAPR01MB232800B63FAD984233F1DB97BEA30@MEAPR01MB2328.ausprd01.prod.outlook.com>

References:

<MEAPR01MB232800B63FAD984233F1DB97BEA30@MEAPR01MB2328.ausprd01.prod.outlook.com>

Message-ID: <88123074-9BC4-437A-B089-E7B1A64F2910@gmail.com>

> On Dec 16, 2018, at 5:35 PM, Brian Goldsmith <brian at flex-tel.com.au> wrote:
> I have a receiver which I would like to restore, model CFT-46194, it was part of
DAQ direction finding equipment. Alas, no trace of a manual have I been able to
find,

I can't find any manual either. Photos and spec sheets are at:

<http://www.navy-radio.com/rcvrs/d-df.htm>

Roy

Roy Morgan

K1LK Y since 1958

k1lky68 at gmail.com

From kb8tad at gmail.com Mon Dec 17 13:21:42 2018

From: kb8tad at gmail.com (Rich Post)

Date: Mon, 17 Dec 2018 13:21:42 -0500

Subject: [BoatAnchors] Radio receiver CFT-46194.

In-Reply-To:

<MEAPR01MB232800B63FAD984233F1DB97BEA30@MEAPR01MB2328.ausprd01.prod.outlook.com>

References:

<MEAPR01MB232800B63FAD984233F1DB97BEA30@MEAPR01MB2328.ausprd01.prod.outlook.com>

Message-ID: <CAEJr0Fss_xYRBZiWu3Hcnrw7Qia=-T3XDv+ydLarbnggozR2zQ@mail.gmail.com>

The DAQ is listed in the Navy catalog (along with my DAE) with some specs
although little detail of the receiver part you are looking at
<<https://maritime.org/doc/ecat/cat-0618.htm>>
(and the following two pages)

Looks to be an interesting (and heavy) piece.

Cheers es 73 de Rich KB8TAD

On Sun, Dec 16, 2018 at 5:35 PM Brian Goldsmith <brian at flex-tel.com.au>
wrote:

> I have a receiver which I would like to restore, model CFT-46194, it was
> part of DAQ direction finding
>

From cbmcgr at gmail.com Mon Dec 17 15:36:02 2018
From: cbmcgr at gmail.com (Chuck McGregor)
Date: Mon, 17 Dec 2018 12:36:02 -0800
Subject: [BoatAnchors] Radio receiver CFT-46194.
In-Reply-To: <CAEJr0Fss_xYRBZiWu3Hcnrw7Qia=-T3XDv+ydLarbnggozR2zQ@mail.gmail.com>
References:
<MEAPR01MB232800B63FAD984233F1DB97BEA30@MEAPR01MB2328.ausprd01.prod.outlook.com>
<CAEJr0Fss_xYRBZiWu3Hcnrw7Qia=-T3XDv+ydLarbnggozR2zQ@mail.gmail.com>
Message-ID: <CAFTq00S7ikW=3MjzbjQik3T+ExRjZNh0s34Aewc+g2Aa8ZJx_w@mail.gmail.com>

For DAQ information,
Suggest you contact Robert Downs in Houston.
<http://www.vendio.com/stores/wa5cab/item/robert-s-military-radios-tm-re/pib-reprint-navy-model-daq-hf-/lid=24422769>

73
Chuck K7MCG

On Mon, Dec 17, 2018 at 10:22 AM Rich Post via BoatAnchors <
boatanchors at lists.theporch.com> wrote:

> The DAQ is listed in the Navy catalog (along with my DAE) with some specs
> although little detail of the receiver part you are looking at
> <<https://maritime.org/doc/ecat/cat-0618.htm>>
> (and the following two pages)

>
> Looks to be an interesting (and heavy) piece.

>
> Cheers es 73 de Rich KB8TAD

>
>
> On Sun, Dec 16, 2018 at 5:35 PM Brian Goldsmith <brian at flex-tel.com.au>
> wrote:

>
> > I have a receiver which I would like to restore, model CFT-46194, it was
> > part of DAQ direction finding
> >

> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

From smithab11 at comcast.net Tue Dec 18 20:55:05 2018
From: smithab11 at comcast.net (B. Smith)
Date: Tue, 18 Dec 2018 20:55:05 -0500
Subject: [BoatAnchors] Christmas Greetings
Message-ID: <0702977c-f8a9-6df0-2f84-e0e60cdf6d51@comcast.net>

Merry Christmas BoatAnchors
breck k4che
<http://k4che.com/Christmas%202017/Novice%20Christmas.htm>

From johnmb at nc.rr.com Wed Dec 19 08:59:53 2018
From: johnmb at nc.rr.com (john)
Date: Wed, 19 Dec 2018 08:59:53 -0500
Subject: [BoatAnchors] Christmas Greetings
In-Reply-To: <0702977c-f8a9-6df0-2f84-e0e60cdf6d51@comcast.net>
References: <0702977c-f8a9-6df0-2f84-e0e60cdf6d51@comcast.net>
Message-ID: <5143c44c-4528-dec9-df40-4d073d94d93c@nc.rr.com>

Indeed!

Merry Christmas to all on this old list!

John

K5MO

On 12/18/2018 8:55 PM, B. Smith via BoatAnchors wrote:
> Merry Christmas BoatAnchors
> breck k4che
> <http://k4che.com/Christmas%202017/Novice%20Christmas.htm>
> -----
> BoatAnchors mailing list
> BoatAnchors at lists.theporch.com
> <https://lists.theporch.com/mailman/listinfo/boatanchors>

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III

From k7sz at live.com Wed Dec 19 14:21:10 2018
From: k7sz at live.com (Rich Arland)
Date: Wed, 19 Dec 2018 19:21:10 +0000
Subject: [BoatAnchors] Christmas Greetings
In-Reply-To: <5143c44c-4528-dec9-df40-4d073d94d93c@nc.rr.com>
References: <0702977c-f8a9-6df0-2f84-e0e60cdf6d51@comcast.net> ,

<5143c44c-4528-dec9-df40-4d073d94d93c@nc.rr.com>

Message-ID:

<BN6PR12MB189091DDD3460A4EA99C2CDEF6BE0@BN6PR12MB1890.namprd12.prod.outlook.com>

>From all of us here at the Bent Dipole Ranch in beautiful rural north Georgia,
>Merry Christmas & Happy New Year!!"

DE Rich, K7SZ & Peppermint Patti, KB3MCT

From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of john
<johnmb at nc.rr.com>

Sent: Wednesday, December 19, 2018 8:59 AM

To: boatanchors at lists.theporch.com

Subject: Re: [BoatAnchors] Christmas Greetings

Indeed!

Merry Christmas to all on this old list!

John

K5MO

On 12/18/2018 8:55 PM, B. Smith via BoatAnchors wrote:

> Merry Christmas BoatAnchors

> breck k4che

> <http://k4che.com/Christmas%202017/Novice%20Christmas.htm>

> -----

> BoatAnchors mailing list

> BoatAnchors at lists.theporch.com

> <https://lists.theporch.com/mailman/listinfo/boatanchors>

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III

BoatAnchors mailing list

BoatAnchors at lists.theporch.com

<https://lists.theporch.com/mailman/listinfo/boatanchors>

From k4wgd47 at gmail.com Fri Dec 21 02:12:51 2018

From: k4wgd47 at gmail.com (wg davis)

Date: Fri, 21 Dec 2018 02:12:51 -0500

Subject: [BoatAnchors] Christmas Greetings

In-Reply-To:

<BN6PR12MB189091DDD3460A4EA99C2CDEF6BE0@BN6PR12MB1890.namprd12.prod.outlook.com>
References: <0702977c-f8a9-6df0-2f84-e0e60cdf6d51@comcast.net>
<5143c44c-4528-dec9-df40-4d073d94d93c@nc.rr.com>
<BN6PR12MB189091DDD3460A4EA99C2CDEF6BE0@BN6PR12MB1890.namprd12.prod.outlook.com>
Message-ID: <CAL+F86JR-657D_BGnOzdp4p_XUXSY__ejdEMJ1c3f7tt8YSmvQ@mail.gmail.com>

Merry Christmas to all Firebottle hoarders..

I need your help, I am looking for the #187 issue of the CB Radio
Series
SAMS PhotoFact.. Or a good copy of the Schematic of an Robyn T-240D..
Thx. 73 W.G. Davis/ K4WGD

On Wed, Dec 19, 2018 at 2:21 PM Rich Arland via BoatAnchors <
boatanchors at lists.theporch.com> wrote:

> From all of us here at the Bent Dipole Ranch in beautiful rural north
> Georgia, Merry Christmas & Happy New Year!!"
>
> DE Rich, K7SZ & Peppermint Patti, KB3MCT
>
> -----
> From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of
> john <johnmb at nc.rr.com>
> Sent: Wednesday, December 19, 2018 8:59 AM
> To: boatanchors at lists.theporch.com
> Subject: Re: [BoatAnchors] Christmas Greetings
>
> Indeed!
>
> Merry Christmas to all on this old list!
>
> John
>
> K5MO
>
>
>
>
> On 12/18/2018 8:55 PM, B. Smith via BoatAnchors wrote:
> > Merry Christmas BoatAnchors
> > breck k4che
> > <http://k4che.com/Christmas%202017/Novice%20Christmas.htm>
> > -----
> > BoatAnchors mailing list
> > BoatAnchors at lists.theporch.com
> > <https://lists.theporch.com/mailman/listinfo/boatanchors>
>
> --

> III
> -----
> BoatAnchors mailing list
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> BoatAnchors mailing list
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> <https://lists.theporch.com/mailman/listinfo/boatanchors>
>

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73, K4WGD

From wrecktech at yahoo.com Fri Dec 21 15:11:43 2018
From: wrecktech at yahoo.com (Meyer Gottesman)
Date: Fri, 21 Dec 2018 20:11:43 +0000 (UTC)
Subject: [BoatAnchors] Christmas Greetings
In-Reply-To: <CAL+F86JR-657D_BGn0zdp4p_XUXSY__ejdEMJ1c3f7tt8YSmvQ@mail.gmail.com>
References: <0702977c-f8a9-6df0-2f84-e0e60cdf6d51@comcast.net>
<5143c44c-4528-dec9-df40-4d073d94d93c@nc.rr.com>
<BN6PR12MB189091DDD3460A4EA99C2CDEF6BE0@BN6PR12MB1890.namprd12.prod.outlook.com>
<CAL+F86JR-657D_BGn0zdp4p_XUXSY__ejdEMJ1c3f7tt8YSmvQ@mail.gmail.com>
Message-ID: <781495397.7979697.1545423103631@mail.yahoo.com>

Tnx OM from W6GIV in Statesboro GA
I used to own 1490 AM 1 KW in Clarkesville GA
73,
Meyer Gottesman

On Friday, December 21, 2018 2:13 AM, wg davis via BoatAnchors <boatanchors at lists.theporch.com> wrote:

? ? Merry Christmas to all Firebottle hoarders..
? ? I need your help,? I am looking for the #187 issue of the CB Radio
Series
SAMS PhotoFact.. Or a good copy of the Schematic of an Robyn T-240D..
? ? ? Thx.? 73? W.G. Davis/ K4WGD

On Wed, Dec 19, 2018 at 2:21 PM Rich Arland via BoatAnchors <boatanchors at lists.theporch.com> wrote:

> From all of us here at the Bent Dipole Ranch in beautiful rural north
> Georgia, Merry Christmas & Happy New Year!!"
>

> DE Rich, K7SZ & Peppermint Patti, KB3MCT
>
> -----
> From: BoatAnchors <boatanchors-bounces at lists.theporch.com> on behalf of
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> Sent: Wednesday, December 19, 2018 8:59 AM
> To: boatanchors at lists.theporch.com
> Subject: Re: [BoatAnchors] Christmas Greetings
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> III
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>

--
73,? K4WGD

BoatAnchors mailing list
BoatAnchors at lists.theporch.com
<https://lists.theporch.com/mailman/listinfo/boatanchors>

From arc5 at ix.netcom.com Mon Dec 31 12:35:09 2018
From: arc5 at ix.netcom.com (David Stinson)
Date: Mon, 31 Dec 2018 11:35:09 -0600
Subject: [BoatAnchors] Crystal Holder Pressure
Message-ID: <000d01d4a12f\$314cf950\$93e6ebf0\$@netcom.com>

Building a mock-up of the Transmit crystal oscillator in the BC-669 transmitter. Going to etch a bunch of large-blank crystals up to usable freqs. The mock-up will have an open, horizontal crystal holder to accept the blanks to check them for freq and activity as the etching progresses. The blank goes into the open holder which connects one side of the blank and a weighted plate goes on the top of the crystal blank, to simulate putting it back in the holder.

Question: Does anyone have an idea how much weight should press-down on the crystal blank to correctly simulate the holder? Incorrect pressure on the blank can move the operation point several KC. Could find this by "trial and error," but does anyone have any good information on this?

TNX ES 73 DE Dave AB5S

From wb3fau55 at neo.rr.com Mon Dec 31 19:08:35 2018
From: wb3fau55 at neo.rr.com (wb3fau55 at neo.rr.com)
Date: Tue, 01 Jan 2019 00:08:35 +0000
Subject: [BoatAnchors] Crystal Holder Pressure
Message-ID: <9d2b1a2f9df62f985298188c492aef368327130a@webmail>

Dave, why don't you just grind the wafer to freq? Might be a lot easier to do. I have moved FT-243s up 105kc. Russ.

-----From: "David Stinson via BoatAnchors"
To: boatanchors at mailman.qth.net, milsurplus at mailman.qth.net
Cc: "David Stinson"
Sent: Monday December 31 2018 12:35:09PM
Subject: [BoatAnchors] Crystal Holder Pressure

Building a mock-up of the Transmit crystal oscillator in the BC-669 transmitter. Going to etch a bunch of large-blank crystals up to usable freqs. The mock-up will have an open, horizontal crystal holder to accept the blanks to check them for freq and activity as the etching progresses. The blank goes into the open holder which connects one side of the blank and a weighted plate goes on the top of the crystal blank, to simulate putting it back in the holder.

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TNX ES 73 DE Dave AB5S

BoatAnchors mailing list
BoatAnchors at lists.theporch.com